MITSUBISHI ELECTRIC

Air Conditioning
Heat Pumps

Deluxe Inverter Wall Mounted ***MSZ-FB Series***

- Quietest High Wall Mounted in NZ*
- Plasma Duo Filter System
- Energy Saving "i-see Temperature Sensor"
- Self Cleaning "Ozone Shower"
- Optional 7 Day Timer

You want to feel the warmth, not hear it.

*MSZ-FB25/35VA at Low Fan Speed and Maximum Output, as at 1st March 2008 in the 2.5 and 3.5kW Cooling Range.

Quietly Superior

MITSUBISHI ELECTRIC

DELUXE WALL-MOUNTED
MSZ-FB Series

Plasma Duo Filter System
With new Ozone Shower and
Energy Saving "i-see Temperature Sensor"

Introducing the state-of-the-art range of Mitsubishi Electric Deluxe Inverter Heat Pumps, specifically designed to combat and reduce common household allergens and unpleasant odours. This unit provides the optimal air quality that is vital for asthma and allergy sufferers. The new energy saving "i-see sensor", automatically searches out temperature disparities over a wide area. Thanks to this advanced sensing technology, the temperature is measured closer to floor level to ensure the room is kept at an optimal temperature.

Dimensions (W x D x H): 798 x 257 x 295mm

MSZ-FB25VA (MSZ-FB25VA + MUZ-FB25VA)
Cooling Capacity: 2.5 (1.1~3.5) kW
Heating Capacity: 3.2 (1.5~5.5) kW

MSZ-FB35VA (MSZ-FB35VA + MUZ-FB35VA)
Cooling Capacity: 3.5 (1.1~4.1) kW
Heating Capacity: 4.0 (1.5~6.0) kW

i-see Sensor
The new energy saving i-see mode searches out temperature differences and directs heat where you really need it.

Plasma Duo Filter Systems
Ideal for Asthma and Allergy sufferers.

R410A

HEAT PUMP

DC Inverter

Infra Red Remote Controller

Cleaning-free, pipe reuse

F-INVERTER

DC Inverter | PAM Control | Only 20dB (FB25) | Econo Cool | Anti-Mold | AREA (Area setting) | AUTO VANE | SWING (VERTICAL) | SWING (HORIZONTAL) | Ozone Shower

Flat Panel | Pure White | Compact | 24 (24-hour Timer) | ACO | Auto Restart | Cooling at 46°C/-10°C | Cooling at -10°C | Heating at -15°C | Weekly Timer (Optional)

Centralised On/Off (Optional) | M-NET connection (Optional) | Quick Clean | Self Diagnosis | Failure Recall | 12m 20m | MXZ connection | Flare connection

Optional*: PAR-21MAA 7 Day Timer
*Requires MAC-397IF-E

For further information on these features please visit our web site: www.bdt.co.nz

Outdoor Units

MUZ-FB25/35VA

Dimensions (W x D x H): 800 x 285 x 550mm

sShhhh...

They're very, very quiet.

ENERGY STAR

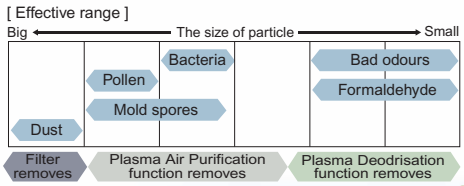
From 20dBA

Guaranteed Heating at -15°C

Air Purification

Plasma Duo Filter Systems

Besides a pre-filter, the unit is also mounted with two plasma air-purifying functions. These functions are engineered to remove airborne dirt particles from micron to nano-size in scale.

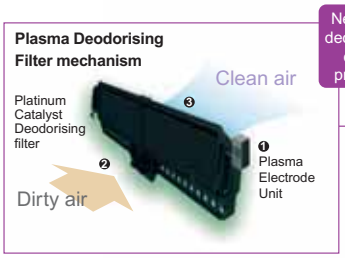


Plasma Electrode Unit

A plasma electrode unit is mounted inside the product. Electro-discharge is used to generate ozone & plasma. The combination of ozone & plasma and two special filters makes a dynamic plasma air cleaning function.

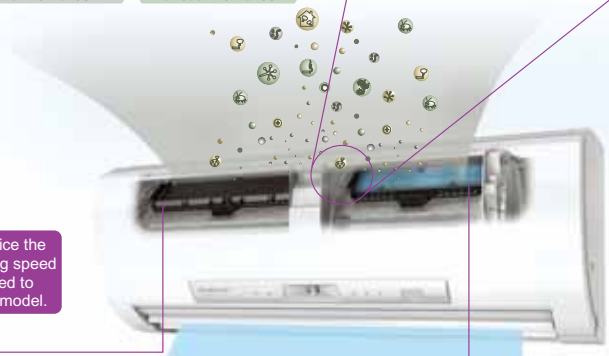
Plasma Deodrisation

"Platinum catalyst deodorising filter" is attached. Minimum holes as small as 1 nanometer on a surface of approximately 3,000m2 capture small foul-smelling substances in the air, then break down the source of the odours with the power of the ozone generated in a plasma electrode unit and the platinum catalyst contained in the filter.



Nearly twice the deodorising speed compared to previous model.

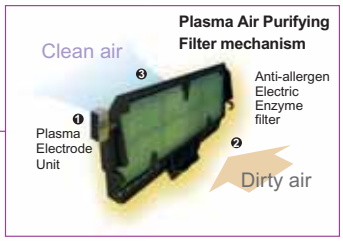
❶ Plasma electrode unit produces ozone.
❷ Particles of odour-releasing substances are absorbed.
❸ Particles of odour-releasing substances are decomposed by ozone.



❶ Plasma electrode unit produces plasma.
❷ Small particles are charged to negative by plasma.
❸ Small particles charged to negative are collected to the positive side of the electret filter and neutralised by enzyme.

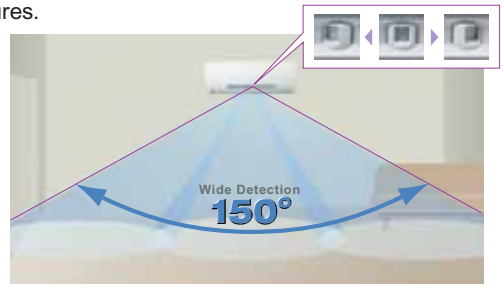
Plasma Air Purification

"Anti-allergen electric enzyme filter" is attached. The power of the static electricity charged in the filter and the plasma generated in the plasma electrode unit team up to capture the bacteria, pollen and other allergens in the air, which are then neutralised with the enzyme in the filter.



The new floor level i-see Sensor, provides optimal temperature control.

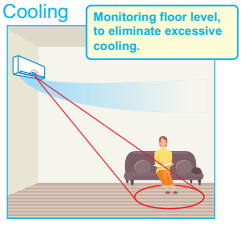
The moving "i see sensor" automatically moves from side to side, searching out temperature disparities over a wide area of 150°. Thanks to this advanced sensing technology, the i-see sensor measures the temperature closer to floor level to give greater control and the wide airflow of 150° from left to right (90° in cooling mode), all corners of even the most spacious rooms are kept at optimal temperatures.



"Area Setting" - for waste-free, energy-saving heating and cooling.

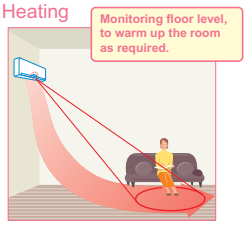
In AREA mode, efficient heating or cooling is targeted where it is really needed - the right side, left side or the room as a whole. The sensor can also operate only on the selected side.

At Cooling



Cold air tends to drop to floor level, which is often the cause of over cooling. The i-see Sensor detects this foot-level temperature and adjust the air outlet temperature to prevent over cooling.

At Heating



Warm air tends to rise up from the floor level, which often prevents that zone from warming up. The i-see Sensor detects this foot-level temperature and adjust air outlet flow to provide optimal temperatures.

What is the "Ozone Shower"?

This is a self cleaning function where the indoor coil will automatically be cleaned with Ozone after the unit has been operating in the cooling mode, to ensure the coil is clean and free from impurities.

Ozone (O_3) is resolved gradually and naturally into oxygen (O_2). This process creates an extremely efficient cleaning process. During resolving "Nascent oxygen (O)" is produced. The nascent oxygen strongly oxidises airborne particles to sterilise and deodorise the air.

O_2 + ⚡ → O_3 → O_2 + (O)

Oxygen — High voltage — Ozone — Oxygen — Nascent Oxygen

The consistency of ozone during ozone showering remains within health regulations.

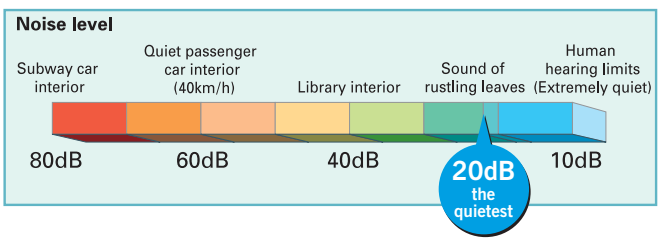
Inside of indoor unit 0.1ppm
Under the upper limit of acceptable range of ozone gas consistency at working environment. (Safety limit advised by Japan Society for Occupational Health)

In the room 0.01ppm or less
Under the averaged consistency of ozone at the beach or forest areas.

Whisper Quiet Operation

Only 20dB MSZ-FB25

Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry. The Deluxe MSZ-FB range is no exception. At only 20 dB(A) in Low Fan Speed and capable of maximum output, the MSZ-FB25VA is the quietest Heat Pump in New Zealand. You want to feel the warmth, not hear it!



Controllers:

Optional: PAR-21MAA 7 Day Timer

Wake up or come home to optimal temperatures whilst conserving energy!

The controller allows your system to be programmed to maintain optimal temperature levels during the times when you are likely to be in the room. In the periods where you are unlikely to be there (such as during work hours or sleep time), the temperature can be set back to a minimum holding temperature instead of turning the system completely off.

Turning a system on and off typically uses the most energy because the system has to heat a room starting from a very low temperature. By maintaining a minimum holding temperature Mitsubishi Electric inverter technology saves you energy as the temperature only needs to be raised by a couple of degrees.

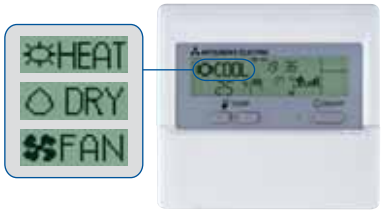
Most air conditioning systems come with a 24 hour remote controller. This means that you can only set the system up to automatically turn on and then off within a 24 hour period. This needs to be manually reactivated each time. The new Mitsubishi Electric 7 day timer allows you to program up to 8 separate Start/Stop patterns per day over a 7 day period.

For example:

- Between 6am and 9am set temperature to 21°C
- Between 9am and 5.30pm set temperature to18°C
- Between 5.30pm and 10pm set temperature to 21°C

Operation Control Function

The PAR-21MAA 7 Day timer also allows the temperature range to be limited to conserve energy by preventing excessive cooling and heating. The controller panel can also be locked off to prevent random modification.



The new clear and precise display is easy to understand for any user.

Optional: G-50 Controller (With Web Server Functions)

Mitsubishi Electric can also offer you a control system to control your Air Conditioning from your local PC. The G-50 gives you simple Computer control from your local Internet Explorer.

G-50

Optional: MAC-821SC-E (Centralised ON/OFF Controller)

An optional Centralised ON/OFF Controller (MAC-821SC-E*) can also be incorporated to regulate all connected units in your home (and enabling ON/OFF selection and operation status confirmation from one single controller).

MAC-821SC-E

Note:
The PAR-21MAA and MAC-821SC-E both require the MAC-397IF-E adaptor per indoor unit.

MAC-397IF-E

Specifications:

MSZ-FB VA Deluxe Inverter Wall Mounted Heat Pump Model (R410A)

TYPE			Deluxe Wall Mounted Inverter Heat Pump	
MODEL NAME			MSZ-FB25VA	MSZ-FB35VA
INDOOR UNIT / OUTDOOR UNIT			MSZ-FB25VA / MUZ-FB25VA	MSZ-FB35VA / MUZ-FB35VA
COOL	Capacity	[kW]	2.5	3.5
		Min-Max [kW]	1.1 - 3.5	1.1 - 4.1
	Input	[kW]	0.52	0.89
		Min-Max [kW]	0.26 - 0.97	0.26 - 1.12
	EER *(COP)*		4.76	3.93
		Star Rating	6.0	6.0
	Sound Level	In (Lo-SH*) [dB(A)]	20 / 29 / 36 / 42	20 / 29 / 36 / 43
		Out [dB(A)]	46	47
	Rated Current (In/Out)	[A]	2.6	4.1
		Max Current [A]	10	10
	Air Volume In (Lo-SH*)	[L/s]	77 - 187	77 - 187
HEAT	Capacity	[kW]	3.2	4.0
		Min-Max [kW]	1.5 - 5.5	1.5 - 6.0
	Input	[kW]	0.65	0.90
		Min-Max [kW]	0.48 - 1.90	0.48 - 1.90
	COP		4.89	4.44
		Star Rating	6.0	6.0
	Sound Level	In (Lo-SH*) [dB(A)]	20 / 29 / 36 / 43	21 / 29 / 36 / 44
		Out [dB(A)]	46	50
	Rated Current (In/Out)	[A]	3.1	4.1
		Max Current [A]	10	10
	Air Volume In (Lo-SH*)	[L/s]	75 - 202	78 - 208
Controller			Infra Red Remote *(Optional: PAR-21MAA)*	
Power Supply (Powered from outdoor unit)			230V / Single Phase / 50 Hz	
INDOOR	Dimensions (WxDxH)	[mm]	798 x 257 x 295	798 x 257 x 295
	Weight	[kg]	12	12
OUTDOOR	Dimensions (WxDxH)	[mm]	800 x 285 x 550	800 x 285 x 550
	Weight	[kg]	36	36
	Sound Level	[dB(A)]	46	47 - 50
EXT. PIPE	Diameter (Liquid/Gas)	[mm]	6.35 / 9.52	6.35 / 9.52
	Max. Length/Height †	[m]	20 / 12	20 / 12
	Chargeless	[m]	7	7
OPERATION RANGE Outdoor	Cooling	[°C]	-10 / +46	-10 / +46
	Heating	[°C]	-15 / +24	-15 / +24

Quick Clean

The easily detachable front panel is simple to wash, and the airflow vents can be opened without any special tools for quick cleaning inside.

5 Year Warranty

Mitsubishi Electric Air Conditioners / Heat Pumps come with a full 5 year parts, labour and compressor warranty.

Energy Ratings & Sound Levels

Energy Rating	6.0 6.0	6.0 6.0
Cool	2.5kW 4.76 EER 20 dB(A)*	3.5kW 3.93 EER 20 dB(A)*
Heat	3.2kW 4.89 COP 20 dB(A)*	4.0kW 4.44 COP 21 dB(A)*
Heat Pump	MSZ-FB25VA	MSZ-FB35VA

* SPL rated at low speed

Note:
1. Rating Conditions (AS/NZS 3823)
Cooling — Indoor: 27°C DB, 19°C WB Outdoor: 35°C DB
Heating — Indoor: 20°C DB Outdoor: 7°C DB, 6°C WB
Refrigerant piping length (one way): 5 m
2. Guaranteed operating range: see specifications table
3. Dry function will not work when the room temperature is below 13°C

*Sound Level: Low / Medium / High / Super High. (SH = Super High).

Colour: Heat pump units shown may not be colour accurate, please ensure you view an actual unit for colour matching.

† Maximum length is inclusive of height differential. i.e. (20/12) means the pipe can be 12m high and 8m across for a total length of 20m.

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All features and specifications are subject to change and amendment at anytime.
Where specifications are critical to design or pre-build we advise that you seek confirmation of accuracy from our product management team on (04) 560 9100.